

# WEST

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## Search Results -

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Search:

L8

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## Search History

DATE: Thursday, September 26, 2002    [Printable Copy](#)    [Create Case](#)
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Query
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result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

<u>L8</u>	L6 not 17	4	<u>L8</u>
<u>L7</u>	15 and L6	1	<u>L7</u>
<u>L6</u>	carrier same 11	5	<u>L6</u>
<u>L5</u>	13 and L4	34	<u>L5</u>
<u>L4</u>	polyvinyl alcohol	98865	<u>L4</u>
<u>L3</u>	11 and L2	66	<u>L3</u>
<u>L2</u>	herbicide\$ or insecticide\$ or pesticide\$	128141	<u>L2</u>
<u>L1</u>	kenaf	722	<u>L1</u>

END OF SEARCH HISTORY

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 1 of 1 returned.**☐ 1. Document ID: US 20020098984 A1

L7: Entry 1 of 1

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098984

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098984 A1

TITLE: Agricultural chemicals composition, preparation thereof and the method for scattering the same

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fujita, Shigeki	Iwata-shi		JP	
Takayanagi, Tohru	Morioka-shi		JP	
Kato, Susumu	Shizuoka-shi		JP	

US-CL-CURRENT: 504/367

Full	Title	CIT.1	REV.1	CLS.1	REF.1	SEQ.1	ATT.1
RAW.1							

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Terms	Documents
15 and L6	1

**Display Format:**

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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 4 of 4 returned.**☐ 1. Document ID: US 20020128158 A1

L8: Entry 1 of 4

File: PGPB

Sep 12, 2002

PGPUB-DOCUMENT-NUMBER: 20020128158

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020128158 A1

TITLE: Method for creating dense drilling fluid additive and composition therefor

PUBLICATION-DATE: September 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Green, Ban D.	New Iberia	LA	US	

US-CL-CURRENT: 507/104

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 2. Document ID: US 6303002 B1

L8: Entry 2 of 4

File: USPT

Oct 16, 2001

US-PAT-NO: 6303002

DOCUMENT-IDENTIFIER: US 6303002 B1

TITLE: Method for producing paper, pulpboard and cardboard

DATE-ISSUED: October 16, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Linhart; Friedrich	Heidelberg			DE
Melzer; Jaroslav	Ludwigshafen			DE
Meixner; Hubert	Ludwigshafen			DE

US-CL-CURRENT: 162/199, 162/164.3, 162/165, 162/166, 162/168.1, 162/168.2,  
162/168.3, 162/183, 162/DIG.4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC
Draw Desc	Image										

☐ 3. Document ID: JP 09183429 A

L8: Entry 3 of 4

File: JPAB

Jul 15, 1997

PUB-NO: JP409183429A

DOCUMENT-IDENTIFIER: JP 09183429 A

TITLE: OILPROOF AND WATERPROOF SIMPLE FOOD CONTAINER

PUBN-DATE: July 15, 1997

## INVENTOR-INFORMATION:

NAME

COUNTRY

SUGIMOTO, YUKIO

INT-CL (IPC): B65 D 1/09; A47 G 19/03; B65 D 85/50

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

RWD

☐ 4. Document ID: EP 1056892 A1 WO 9941439 A1 DE 19805996 A1 AU 9933261 A

L8: Entry 4 of 4

File: DWPI

Dec 6, 2000

DERWENT-ACC-NO: 1999-508657

DERWENT-WEEK: 200064

COPYRIGHT 2002 DERWENT INFORMATION LTD

TITLE: Production of nonwovens for insulation and automobile inner padding, etc

INVENTOR: HESCH, R

PRIORITY-DATA: 1998DE-1005996 (February 16, 1998)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
EP 1056892 A1	December 6, 2000	G	000	D01G009/18
WO 9941439 A1	August 19, 1999	G	036	D01G009/18
DE 19805996 A1	September 16, 1999		000	D04H001/70
AU 9933261 A	August 30, 1999		000	D01G009/18

INT-CL (IPC): D01 G 9/18; D01 G 25/00; D01 G 37/00; D04 H 1/70; D04 H 5/08

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Clip Img	Image							

RWD

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Terms	Documents
L6 not l7	4

Display Format:

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Change Format

**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 10 of 34 returned.**☐ 1. Document ID: US 20020098984 A1

L5: Entry 1 of 34

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020098984

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020098984 A1

TITLE: Agricultural chemicals composition, preparation thereof and the method for scattering the same

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fujita, Shigeki	Iwata-shi		JP	
Takayanagi, Tohru	Morioka-shi		JP	
Kato, Susumu	Shizuoka-shi		JP	

US-CL-CURRENT: 504/367

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMMC
Draw	Desc	Image								

☐ 2. Document ID: US 20020096292 A1

L5: Entry 2 of 34

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020096292

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020096292 A1

TITLE: Superabsorbent containing diapers

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hansen, Michael R.	Seattle	WA	US	
Young, Richard H. SR.	Renton	WA	US	

US-CL-CURRENT: 162/173; 162/179, 428/532

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMMC
Draw	Desc	Image								

☐ 3. Document ID: US 20020096291 A1

L5: Entry 3 of 34

File: PGPB

Jul 25, 2002

PGPUB-DOCUMENT-NUMBER: 20020096291  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020096291 A1

TITLE: Method for making superabsorbent containing diapers

PUBLICATION-DATE: July 25, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Hansen, Michael R.	Seattle	WA	US	
Young, Richard H. SR.	Renton	WA	US	

US-CL-CURRENT: 162/173; 162/179, 428/532

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMC
Draw Desc	Image									

☐ 4. Document ID: US 20020025435 A1

L5: Entry 4 of 34

File: PGPB

Feb 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020025435  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20020025435 A1

TITLE: PARTICLE BINDING TO FIBERS

PUBLICATION-DATE: February 28, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
HANSEN, MICHAEL R.	SEATTLE	WA	US	
YOUNG, RICHARD H. SR.	RENTON	WA	US	

US-CL-CURRENT: 428/403

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMC
Draw Desc	Image									

☐ 5. Document ID: US 20010021453 A1

L5: Entry 5 of 34

File: PGPB

Sep 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010021453  
PGPUB-FILING-TYPE: new  
DOCUMENT-IDENTIFIER: US 20010021453 A1

TITLE: Particle binding to fibers

PUBLICATION-DATE: September 13, 2001

NAME	CITY	STATE	COUNTRY	RULE-47
Hansen, Michael R.	Seattle	WA	US	
Young, Richard H. SR.	Renton	WA	US	

[illegible]

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

[illegible]

☒ 8. Document ID: US 6372333 B1

L5: Entry 8 of 34

File: USPT

Apr 16, 2002

US-PAT-NO: 6372333

DOCUMENT-IDENTIFIER: US 6372333 B1

TITLE: Composition containing inorganic porous crystals-hydrophilic macromolecule composite and product made therefrom

DATE-ISSUED: April 16, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Sugiyama; Kouju	Osaka			JP
Nakano; Maki	Osaka			JP
Utsunomiya; Takaaki	Osaka			JP
Fujimoto; Yoshinobu	Osaka			JP

US-CL-CURRENT: 428/311.71; 428/292.1, 428/304.4, 428/311.11, 428/312.2, 428/312.4, 428/312.6, 442/370, 524/431, 524/432, 524/435, 524/450

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 9. Document ID: US 6340411 B1

L5: Entry 9 of 34

File: USPT

Jan 22, 2002

US-PAT-NO: 6340411

DOCUMENT-IDENTIFIER: US 6340411 B1

TITLE: Fibrous product containing densifying agent

DATE-ISSUED: January 22, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 162/173; 162/179, 428/497, 428/532

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KWIC
Draw Desc	Image									

☐ 10. Document ID: US 6071549 A

L5: Entry 10 of 34

File: USPT

Jun 6, 2000

US-PAT-NO: 6071549

DOCUMENT-IDENTIFIER: US 6071549 A



TITLE: Binder treated fibrous webs and products

DATE-ISSUED: June 6, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		

US-CL-CURRENT: [427/2.31](#); [427/180](#), [427/202](#), [427/337](#), [427/342](#), [427/369](#), [427/394](#) .

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KIMC
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L5: Entry 11 of 34

File: USPT

Sep 15, 1998

US-PAT-NO: 5807364

DOCUMENT-IDENTIFIER: US 5807364 A

TITLE: Binder treated fibrous webs and products

DATE-ISSUED: September 15, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		

US-CL-CURRENT: 604/367; 442/153, 442/164, 442/170, 604/368

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 12. Document ID: US 5789326 A

L5: Entry 12 of 34

File: USPT

Aug 4, 1998

US-PAT-NO: 5789326

DOCUMENT-IDENTIFIER: US 5789326 A

TITLE: Particle binders

DATE-ISSUED: August 4, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 442/59; 156/296, 156/305, 156/62.6, 156/62.8, 162/136, 162/141, 162/157.6, 162/158, 162/159, 162/161, 162/163, 162/182, 19/145, 19/148, 19/304, 8/115.51, 8/115.54, 8/115.6, 8/115.7, 8/116.4, 8/120, 8/127.6, 8/128.1, 8/186

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 13. Document ID: US 5693411 A

L5: Entry 13 of 34

File: USPT

Dec 2, 1997

US-PAT-NO: 5693411

DOCUMENT-IDENTIFIER: US 5693411 A

TITLE: Binders for binding water soluble particles to fibers

DATE-ISSUED: December 2, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 442/417; 428/378, 442/327

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 14. Document ID: US 5672418 A

L5: Entry 14 of 34

File: USPT

Sep 30, 1997

US-PAT-NO: 5672418

DOCUMENT-IDENTIFIER: US 5672418 A

TITLE: Particle binders

DATE-ISSUED: September 30, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 442/70; 428/378, 428/913

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

KIMC

☐ 15. Document ID: US 5641561 A

L5: Entry 15 of 34

File: USPT

Jun 24, 1997

US-PAT-NO: 5641561

DOCUMENT-IDENTIFIER: US 5641561 A

TITLE: Particle binding to fibers

DATE-ISSUED: June 24, 1997

## INVENTOR-INFORMATION:



☐ 18. Document ID: US 5609727 A

L5: Entry 18 of 34

File: USPT

Mar 11, 1997

US-PAT-NO: 5609727

DOCUMENT-IDENTIFIER: US 5609727 A

TITLE: Fibrous product for binding particles

DATE-ISSUED: March 11, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 162/184; 162/158, 162/185, 428/147, 428/394, 604/367, 604/378

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 19. Document ID: US 5607759 A

L5: Entry 19 of 34

File: USPT

Mar 4, 1997

US-PAT-NO: 5607759

DOCUMENT-IDENTIFIER: US 5607759 A

TITLE: Particle binding to fibers

DATE-ISSUED: March 4, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 442/417; 428/378, 428/913

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
Draw Desc	Image									

☐ 20. Document ID: US 5589256 A

L5: Entry 20 of 34

File: USPT

Dec 31, 1996

US-PAT-NO: 5589256

DOCUMENT-IDENTIFIER: US 5589256 A

TITLE: Particle binders that enhance fiber densification

DATE-ISSUED: December 31, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 442/417; 156/296, 156/305, 156/62.6, 156/62.8, 162/136, 162/141, 162/157.6, 162/158, 162/159, 162/161, 162/163, 162/182, 162/184, 162/205, 19/145, 19/148, 19/304, 38/144, 424/402, 424/403, 424/404, 427/180, 427/196, 427/212, 427/214, 427/336, 427/365, 427/392, 427/394, 427/396, 427/402, 428/361, 428/372, 428/380, 428/74, 428/76, 428/902, 604/304, 604/307, 604/365, 604/367, 604/374, 604/375, 604/378, 8/115.51, 8/115.54, 8/115.6, 8/115.7, 8/116.4, 8/120, 8/127.6, 8/128.1, 8/186

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMCC
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☐ 23. Document ID: US 5547745 A

L5: Entry 23 of 34

File: USPT

Aug 20, 1996

US-PAT-NO: 5547745

DOCUMENT-IDENTIFIER: US 5547745 A

TITLE: Particle binders

DATE-ISSUED: August 20, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 442/417; 428/378, 428/393

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC
Draw Desc	Image									

☐ 24. Document ID: US 5547541 A

L5: Entry 24 of 34

File: USPT

Aug 20, 1996

US-PAT-NO: 5547541

DOCUMENT-IDENTIFIER: US 5547541 A

TITLE: Method for densifying fibers using a densifying agent

DATE-ISSUED: August 20, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 162/12; 162/158, 162/166, 162/168.1, 162/181.1, 162/184

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KOMC
Draw Desc	Image									

☐ 25. Document ID: US 5543215 A

L5: Entry 25 of 34

File: USPT

Aug 6, 1996

US-PAT-NO: 5543215

DOCUMENT-IDENTIFIER: US 5543215 A

TITLE: Polymeric binders for binding particles to fibers

DATE-ISSUED: August 6, 1996

## INVENTOR-INFORMATION:





☐ 28. Document ID: US 5447977 A

L5: Entry 28 of 34

File: USPT

Sep 5, 1995

US-PAT-NO: 5447977

DOCUMENT-IDENTIFIER: US 5447977 A

TITLE: Particle binders for high bulk fibers

DATE-ISSUED: September 5, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 524/13; 428/372, 523/204, 523/205, 523/206, 523/207, 523/208,  
523/215, 523/216, 523/217

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 29. Document ID: US 5432000 A

L5: Entry 29 of 34

File: USPT

Jul 11, 1995

US-PAT-NO: 5432000

DOCUMENT-IDENTIFIER: US 5432000 A

TITLE: Binder coated discontinuous fibers with adhered particulate materials

DATE-ISSUED: July 11, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Young, Sr.; Richard H.	Federal Way	WA		
Neogi; Amar N.	Seattle	WA		
Hansen; Michael R.	Seattle	WA		
Hodgson; Kevin T.	Seattle	WA		
Halabisky; Donald D.	Tacoma	WA		
Marsh; David G.	Federal Way	WA		
Brunnenkant; Christel	Seattle	WA		
Park; David W.	Puyallup	WA		
Gaddis; Paul G.	Renton	WA		
Johnston, Jr.; William C.	Puyallup	WA		

US-CL-CURRENT: 428/372; 428/357, 428/361, 428/373, 428/375, 428/378, 428/393

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMIC
Draw Desc	Image									

☐ 30. Document ID: US 5352480 A

L5: Entry 30 of 34

File: USPT

Oct 4, 1994

US-PAT-NO: 5352480

DOCUMENT-IDENTIFIER: US 5352480 A

TITLE: Method for binding particles to fibers using reactivatable binders

DATE-ISSUED: October 4, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 427/202; 427/205, 428/372, 428/393, 604/368

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	KMC
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**WEST**[Generate Collection](#)[Print](#)**Search Results - Record(s) 31 through 34 of 34 returned.**☒ 31. Document ID: US 5308896 A

L5: Entry 31 of 34

File: USPT

May 3, 1994

US-PAT-NO: 5308896

DOCUMENT-IDENTIFIER: US 5308896 A

TITLE: Particle binders for high bulk fibers

DATE-ISSUED: May 3, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Renton	WA		

US-CL-CURRENT: 524/13; 428/372, 523/204, 523/205, 523/206, 523/207, 523/208,  
523/209, 523/215, 523/216, 523/217

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

[KIMC](#)☐ 32. Document ID: US 5300192 A

L5: Entry 32 of 34

File: USPT

Apr 5, 1994

US-PAT-NO: 5300192

DOCUMENT-IDENTIFIER: US 5300192 A

TITLE: Wet laid fiber sheet manufacturing with reactivatable binders for binding particles to fibers

DATE-ISSUED: April 5, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hansen; Michael R.	Seattle	WA		
Young, Sr.; Richard H.	Federal Way	WA		

US-CL-CURRENT: 162/184; 156/296, 156/305, 156/62.6, 162/12, 442/73

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
Draw Desc	Image								

[KIMC](#)

☐ 33. Document ID: US 5288318 A

L5: Entry 33 of 34

File: USPT

Feb 22, 1994

US-PAT-NO: 5288318

DOCUMENT-IDENTIFIER: US 5288318 A

TITLE: Cellulose acetate and starch based biodegradable injection molded plastics compositions and methods of manufacture

DATE-ISSUED: February 22, 1994

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mayer; Jean M.	N. Smithfield	RI		
Elion; Glenn R.	Chatham	MA		

US-CL-CURRENT: 106/126.3; 106/132.1, 106/132.2, 106/139.3, 106/162.7, 264/211, 264/211.12, 536/102, 536/69

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMC
Draw Desc	Image									

☐ 34. Document ID: US 4739603 A

L5: Entry 34 of 34

File: USPT

Apr 26, 1988

US-PAT-NO: 4739603

DOCUMENT-IDENTIFIER: US 4739603 A

TITLE: Simulated thatched roofing

DATE-ISSUED: April 26, 1988

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Butler; Delicia M.	El Toro	CA	92630	

US-CL-CURRENT: 52/750; 428/17

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	RMC
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# WEST



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L5: Entry 7 of 34

File: USPT

May 21, 2002

DOCUMENT-IDENTIFIER: US 6391453 B1

TITLE: Binder treated particles

Detailed Description Text (15):

Bleaching processes, such as chlorine or ozone/oxygen bleaching may also be used in pretreating the fibers. In addition, the fibers may be pretreated, as by slurrying the fibers in baths containing various solutions. For example, antimicrobial solutions (such as solutions of antimicrobial particles as set forth below), as well as solutions of fertilizers and pesticides, and/or fragrances and flavors, for release over time during the life of the fibers. Fibers pretreated with other chemicals, such as thermoplastic and thermoset resins also may be used. Combinations of pretreatments also may be employed with the resulting pretreated fibers then being subjected to the application of the binder coating as explained below.

Detailed Description Text (19):

Specific examples of natural fibers that contain a hydrogen bonding functionality include chopped silk fibers, wood pulp fibers, bagasse, hemp, jute, rice, wheat, bamboo, corn, sisal, cotton, flax, kenaf, peat moss, and mixtures thereof. Suitable synthetic fibers with hydrogen bonding functionalities include acrylic, polyester, carboxylated polyolefins, rayon and nylon. The hydrogen-bonding functionality is an ester in acrylic fibers and a carboxylic acid in carboxylated polyolefin fibers, an ester in polyester, an amide in nylon, and a hydroxyl in rayon. Polyethylene and polypropylene would be unsuitable fibers for use in particle to fiber bonding in the manner of the present invention because they include only carbons and hydrogens without any other atoms, such as oxygens or nitrogens, that can participate in hydrogen bonds.

Detailed Description Text (31):

In one disclosed embodiment the added particles are superabsorbent particles, which comprise polymers that swell on exposure to water and form a hydrated gel (hydrogel) by absorbing large amounts of water. Superabsorbents are defined herein as materials that exhibit the ability to absorb large quantities of liquid, i.e., in excess of 10 to 15 parts of liquid per part thereof. These superabsorbent materials generally fall into three classes, namely starch graft copolymers, crosslinked carboxymethylcellulose derivatives and modified hydrophilic polyacrylates. Examples of such absorbent polymers are hydrolyzed starch-acrylonitrile graft copolymer, a neutralized starch-acrylic acid graft copolymer, a saponified acrylic acid ester-vinyl acetate copolymer, a hydrolyzed acrylonitrile copolymer or acrylamide copolymer, a modified cross-linked polyvinyl alcohol, a neutralized self-crosslinking polyacrylic acid, a crosslinked polyacrylate salt, carboxylated cellulose, and a neutralized crosslinked isobutylene-maleic anhydride copolymer.

Detailed Description Paragraph Table (1):

TABLE I Water-Insoluble Particulates For Binding Name Function Aluminum Trihydrate Fire retardant, astringent Acediasulfone Antibacterial Agaricic acid Antiperspirant Alclometastone Topical anti-inflammatory Calcium alginate Topical hemostatic Amidomycin Fungicide Antimony oxide Fire retardant Apigenin Yellow dye, mordant Arsenic disulfide Red Pigment Aspirin Anti-inflammatory; antipyretic Azanidazole Antiprotozoal (Trichomonas) Azelaic acid Antiacne Baicalein Astringent Bendazac Anti-inflammatory Benomyl Fungicide; ascaricide Benzestrol Estrogen Benzylpenicillinic acid Antibacterial Benzylsulfamide Antibacterial Bergaptene Antipsoriatic Betasine Iodine source Bezitramide Narcotic analgesic Bibrocathol

Topical antiseptic Bietanautine Antihistaminic Bifenox Herbicide Bifonazole  
 Antifungal Binapacryl Fungicide, miticide Bis(p-chlorophenoxy) Miticide methane  
 Bismuth aluminate Antacid Bismuth iodide oxide Anti-infective Bismuth phosphate  
 Antacid; protectant Bismuth subcarbonate Topical protectant Bismuth subgallate  
 Astringent, antacid; protectant Bisphenol A Fungicide Bitertanol Agricultural  
 fungicide Bithionol Topical anti-infective Bromacil Herbicide Bromadiolone  
 Rodenticide Bromcresol green Indicator Bromcresol purple Indicator Bromethalinlin  
 Rodenticide p-Bromoacetanilide Analgesic; antipyretic 3-Bromo-d-camphor Topical  
 counterirritant Bromophos Insecticide Bromopropylate Acaricide 5-Bromosalicyl-  
 antibacterial hydroxamic acid (tuberculostatic) 5-Bromosalicylic acid Analgesic  
 acetate Bromosaligenin Anti-inflammatory Bromthymol blue Indicator Broxyquinoline  
 Antiseptic; disinfectant Bucetin Analgesic Bumadizon Analgesic; anti-inflammatory;  
 antipyretic Bupirimate Fungicide Busulfan Carcinogen, insect sterilant,  
 antineoplastic Butamben Topical anesthetic Butyrlin Insecticide Butylated hydroxy-  
 Antioxidant (BHA) anisole Butyl paraben Pharmaceutical aid; food preservative  
 4-tert-Butylphenyl Light absorber salicylate Cacotheline Indicator Cactinomycin  
 Antineoplastic Cadmium salicylate Antiseptic Calamine Skin protectant Calcium  
 carbonate Antacid Calcium saccharate Pharmaceutical aid Calcium tartrate Preservative;  
 deodorant; antacid Cambendazole Anthelmintic Candicidin Topical antifungal Candidin  
 Topical antifungal Capsaicin Topical analgesic Captan Fungicide; bacteriostat  
 Carbadox Antimicrobial Carbamazepine Anticonvulsant; analgesic Carbarsone Antiamebic  
 Carbaryl Contact insecticide Carbazochrome Antihemorrhagic salicylate Carbenazim  
 Fungicide Carbochloral Hypnotic Carbophenothion Miticide; insecticide Carboquone  
 Antineoplastic Carisoprodol Skeletal muscle relaxant Carthamin Dye Carvacrol  
 Disinfectant Cephalin Local hemostatic Chalcomycin Antibiotic Chartreusin Antibiotic  
 Chitin Vulnerary Chloramben Herbicide Chloramphenacol Antimicrobial palmitate  
 Chloranil Fungicide Chlorbetamide Antiamebic Chlordimeform Insecticide Chlorfenac  
Herbicide Chlorfenethol Acaricide Chlorhexidine Topical antibacterial Chloroazodin  
 Antibacterial; topical anesthetic Chlorophacinone Anticoagulant rodenticide  
 p-Chlorophenol Antiseptic Chlorothricin Antibiotic Chlorotrianisene Estrogen  
 Chloroxylenol Antiseptic; germicide Chlorphenesin Topical antifungal Chlorphenesin  
 carbamate Relaxant (skeletal muscle) Chlorphenoxamide Antiamebic Chlorpropamide  
 Antidiabetic Chlorpyrifos Insecticide Chlorquinaldol Topical antibacterial  
 Chlorsulfuron Herbicide Chlorothion Insecticide Chlozoxazone Relaxant Cholesterol  
 Pharmaceutical aid Chromic carbonate Pigment Chromic hydroxide Pigment Chromic oxide  
 Abrasive Chromic phosphate Green pigment Chrysamminic acid Explosive Chrysarobin  
 Antipsoriatic Cilastazol Antithrombotic Cinoxate Sunscreen agent

#### Detailed Description Paragraph Table (2):

TABLE II Particulates For Binding Name Function Ethylenediaminetetraacetic Odor  
 absorbent acid (EDTA) disodium salt of EDTA Chelator Sodium bicarbonate Odor  
 absorbent/pH modifier Acarbose Antidiabetic Acefylline Piperazine Bronchodilator  
 Acenocoumarol, sodium salt Anticoagulant Acephate Insecticide Acetaminophen  
 Analgesic Acetyllecine Antivertigo agent Monoethanolamine Acid Violet 7B Dye/Stain  
 Acitretin Antipsoriatic Acranil Antiprotozoal (Giardia) Acriflavine Anti-infective  
 Actaplanins Growth stimulant Algestone Acetophenide Antiacne Algin Hemostatic  
 Almagate Antacid (-)-Ambroxide Fragrance Ambucaine hydrochloride Local anesthetic  
 Amodiaquin Antimalarial Anabasine hydrochloride Insecticide o-Anisaldehyde Fragrance  
 Anisomycin hydrochloride Topical antitrichomonal Aralkonium chloride Antiseptic,  
 germicide Asiaticoside Dermatide, wounds, burns Aspartame Non-nutritive sweetener  
 Azidoamphenicol Antimicrobial in eye infections Bebeerine Antimalarial Potassium  
 benzoate Preservative, antifungal Benzoyl peroxide Dermatide, antiacne Benzylidene  
 acetone Fragrance Bidrin Insecticide Biphenamine hydrochloride Antiseborrheic  
 Bishydroxycoumarin Anticoagulant Bismuth tribromophenate Topical antiseptic  
 Blastocidin S hydrochloride Antimicrobial Bromocresyl green Indicator Bromophenol  
 blue Indicator Butathamine hydrochloride Anesthetic Caffeine hydrochloride CNS  
 Stimulant Calcium ascorbate Vitamin C/Calcium source Calcium bisulfite Germicide  
 Calcium thioglycollate Depilatory Carbachol Ophthalmic parasympathomimetic Carbowax  
 Ointment base Cetalkonium chloride Antibacterial Cethoxonium bromide Antiseptic  
 Chartreusin Antimycobacterial Chloramine-T Topical antiseptic Cinnamic acid  
 Fragrance Cotarnine chloride Hemostatic Demercarium bromide Topical antiglaucoma  
 D-2-deoxyribose DNA synthesis Dequalinium chloride Antiseptic Dermostatin Anti  
 fungal Dexamethasone Glucocorticoid Diacetone acrylamide Mfr coatings, adhesives  
 2,4-Diamino-6- Indicator of hydroxypyrimidine nitrates/nitrites 2,4-Diaminophenol  
 Photographic developer dihydrochloride Diamthazole dihydrochloride Antifungal

Diatrizoate sodium Diagnostic aid Dibekacin sulfate Antibacterial Disodium 4',5'-FDA approved dye dibromofluorescein 3,5-Dibromo-4- Topical disinfectant hydroxybenzenesulfonic acid, sodium salt Dibromopropamide Cosmetic preservative Diflorasone Topical anti-inflammatory Dihydroxyacetone Artificial tanning agent Diisobutyl sodium Wetting agent/detergent sulfosuccinate Dikegulac Plant growth regulator Dimethisoquin Topical anesthetic Diphenicillin sodium Antibacterial Diphetarsone Antiamebic Dipyrone Analgesic, antipyretic Diquat dibromide Herbicide, defoliant Dodine Fungicide Domiphen bromide Topical anti-infective Dulcin Non-nutritive sweetener Dymixal .RTM. Topical burn treatment Ecognidine Topical anesthetic Edetic acid Antioxidant Edoxudine Antiviral Ellagic acid Hemostatic Endothal Herbicide, defoliant Eosine I bluish Dye Eosine yellowish Cosmetic dye Erythrosine Food dye Esculin Skin protectant Ethacridine Antiseptic Ethambutol hydrochloride Antibacterial (tuberculostatic) Ethamsylate Hemostatic Ethylidene dicoumarol Anticoagulant Ethylstibamine Antiprotozoal Euprocin dihydrochloride Topical anesthetic Fast green FCF Food coloring Fenticonazole nitrate Topical antifungal Ferric albuminate Hematinic Ferric chloride hexahydrate Astringent, styptic Ferric formate Silage preservative Ferrulic acid, sodium salt Food preservative Fluorescein, disodium salt Diagnostic aid Fluoridamid Plant growth retardant Forminitrazol Antiprotozoal (Trichomonas) Fortimicin(s) Antibacterial Foscarnet sodium Antiviral (HIV-1) Fosetyl Al Systemic fungicide Fungichromin Topical antifungal Gallic acid Astringent, styptic Gentian violet Topical anti-infective Gluconolactone Cleaner Gossypol Rubber antioxidant Heparin Anticoagulant Hexamethylolmelamine Fireproofing agent Mexamidine Antiseptic, anti-acne Homatropine Anticholinergic (ophtalmic) Hydrastinine hydrochloride Uterine hemostatic Hydrocortisone phosphate, Glucocorticoid disodium salt Hydroquinine hydrochloride Depigmentor hemihydrate Hydroxyamphetamine Androgenic (ophtalmic) hydrobromide Hydroxybutyranilide Antioxidant 3-Hydroxycamphor Topical antipruritic 1-(Hydroxymethyl)-5,5- Cosmetic preservative dimethylhydantion 8-Hydroxyquinoline sulfate Antiperspirant, deodorant Iodic acid Astringent Itraconazole Antifungal Kanamycin(s) Antibacterial Kermesic acid Dye Kojic acid Flavor enhancer Laccaic acid Crimson dye Lactic acid Acidulant Litmus Indicator L-Lysine L-glutamate Flavor additive Lyxoflavine Feedstuff, growth- promoter Maclurin Dye Malachite green Dye Maltol Flavor enhancer Maneb Agricultural fungicide Manganese acetate Mordant Meralein sodium Topical anti-infective Plus a host of others, including a wide range of inorganic salts.



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L5: Entry 8 of 34

File: USPT

Apr 16, 2002

DOCUMENT-IDENTIFIER: US 6372333 B1

TITLE: Composition containing inorganic porous crystals-hydrophilic macromolecule composite and product made therefrom

Brief Summary Text (14):

5. The composition of the above-mentioned (1), wherein the hydrophilic macromolecule is at least one member selected from the group consisting of natural cellulose, regenerated cellulose, bacterial cellulose, chemically-modified cellulose, silk wool, polyacrylamide, polyvinyl alcohol, crosslinked polyvinyl alcohol, chitin, chitosan, ethylene-vinyl acetate copolymer and polyvinyl formal.

Brief Summary Text (15):

6. The composition of the above-mentioned (5), wherein the natural cellulose is at least one member selected from the group consisting of pulp, cotton, hemp and kenaf.

Brief Summary Text (25):

16. The product of the above-mentioned (9), wherein the hydrophilic macromolecule is at least one member selected from the group consisting of natural cellulose, regenerated cellulose, bacterial cellulose, chemically-modified cellulose, silk, wool, polyacrylamide, polyvinyl alcohol, crosslinked polyvinyl alcohol, chitin, chitosan, ethylene-vinyl acetate copolymer and polyvinyl formal.

Brief Summary Text (26):

17. The product of the above-mentioned (16), wherein the natural cellulose is at least one member selected from the group consisting of pulp, cotton, hemp and kenaf.

Detailed Description Text (6):

The hydrophilic macromolecule of the inorganic porous crystals-hydrophilic macromolecule composite (A) to be used in the present invention is subject to no particular limitation as long as it swells with water. Examples thereof include natural cellulose such as pulp and kenaf, regenerated cellulose (e.g., cellophane, cellulose beads, rayon, cellulose sponge and the like), cotton, bacterial cellulose and cellulose derivatives obtained by chemically-modifying cellulose (e.g., ethyl cellulose, hydroxyethyl cellulose, hydroxypropyl cellulose, methyl cellulose, ethyl hydroxyethyl cellulose and carboxymethyl cellulose, and the like), and natural or artificial hydrophilic macromolecules such as silk wool, hemp, polyvinyl alcohol, crosslinked polyvinyl alcohol, chitin, chitosan, ethylene-vinyl acetate copolymer, polyvinyl formal and the like, highly water-absorbable macromolecule gels such as polyacrylamide and the like, collagen, propolis, urushi, wood powder and the like.

Detailed Description Text (22):

Examples of such carrier include resin, inorganic hardener and the like. Examples of said resin include natural resin, synthetic resin, blends thereof and the like. Specific examples of natural resin include pine resin, shellac, wax, collagen, propolis, urushi, wood powder and the like. Synthetic resin may be, for example, polyolefin (e.g., polyethylene, polypropylene and the like), polyamide (e.g., polyacrylamide and the like), polyvinyl alcohol, phenol resin and the like. In addition, butadiene rubber, silicone rubber and the like can be also used. Preferred is polyethylene in view of price, low boiling point and general applicability. The blend of a natural resin and a synthetic resin can be obtained by a method known in

the field of art. The mode of the carrier using a resin include, for example, a liquid (e.g., paint and the like), flexible one like rubber, board, sheet, string, net, cushion and the like.

Detailed Description Text (36):

A wood powder obtained from a mill factory and a polyvinyl alcohol glue are mixed, to which zeolite-pulp composite is added and kneaded. The mixture is placed in a mold frame and pressurized and dried for solidification.

Detailed Description Text (40):

b. Polyvinyl Alcohol Glue

Detailed Description Text (41):

Polyvinyl alcohol is dispersed in warm water at about 60.degree. C. and kneaded until it has appropriate viscosity (viscosity measured by a B type viscometer being about 10,000-100,000 centipoise), at which point a zeolite-cellulose bead composite is further added and kneaded.

Detailed Description Text (49):

Specific examples include at least one fiber selected from chemical fiber such as polyester fiber (e.g., polyethylene terephthalate), polyolefin fiber, polyurethane fiber, (poly)acrylic fiber, cellulose fiber (e.g., rayon, cupra and the like) and the like, natural fiber such as wool, silk, cotton, hemp, kenaf and the like, inorganic fiber such as glass fiber, carbon fiber, metal (e.g., copper, aluminum, iron, stainless and the like) fiber and the like, and active charcoal fiber. The above-mentioned chemical fiber may be made from a copolymer.

Detailed Description Text (65):

When a good touch is desired for a substrate, the use of silk, rayon, cotton, hemp or kenaf is preferable, and when high weatherability and water resistance are desired, the use of a sheet or film made from a polyolefin resin such as polyethylene, polypropylene, polystyrene, polyethylene terephthalate and the like, aramid resin, polyacrylate resin or fiber, or inorganic membrane made from titanium dioxide, glass and the like is preferable, when high heat insulating property is desired, wool, polyacrylonitrile fiber, aluminum foil, foamed polyurethane and foamed polystyrene is preferable, and when high electromagnetic resistance is desired, the use of a metal (e.g., iron, aluminum, copper and the like) fiber or metal foil is preferable.

Detailed Description Text (80):

The layer composed of an inorganic porous crystals-hydrophilic macromolecule composite (A) can take various shapes depending on the kind of the hydrophilic macromolecule to be used. For example, when the hydrophilic macromolecule is polyvinyl alcohol, crosslinked polyvinyl alcohol and the like, it can be a film. A preferable embodiment of the laminate of the present invention wherein the layer of the inorganic porous crystals-hydrophilic macromolecule composite (A) is a film which is shown in FIG. 3. In FIG. 3, 1' is a substrate film and 2' is a layer composed of an inorganic porous crystals-hydrophilic macromolecule composite (A), which is a film.

Detailed Description Text (86):

FIG. 5 shows an embodiment wherein a laminate of FIG. 3 is superimposed on the laminate of FIG. 1. The substrate 1 is preferably a nonwoven fabric made from a natural fiber. The layer composed of the inorganic porous crystals-hydrophilic macromolecule composite (A) is preferably a zeolite-pulp composite layer. The substrate 1' is preferably a plastic film, particularly polyvinyl alcohol copolymer film; the layer 2' made from an inorganic porous crystals-hydrophilic macromolecule composite is preferably a zeolite-cellophane composite layer.

Detailed Description Text (94):

When an inorganic porous crystals-hydrophilic macromolecule composite (A) wherein the hydrophilic macromolecule contains inorganic porous crystals in its inner matrix and a function improver (B) or function improving fiber (B1) are combined, or when a layer made from an inorganic porous crystals-hydrophilic macromolecule composite (A) wherein the hydrophilic polymer contains inorganic porous crystals in its inner

matrix is laminated on a function improving substrate (B2), the product, textile, nonwoven fabric, paper and laminate obtained from the composition of the present invention come to have high strength, in addition to the gas adsorption capability, volatile organic solvent removing capability, noncombustibility, heat insulating property, and heavy metal and radioactive element removing capability, that the inorganic porous crystals-hydrophilic macromolecule composite (A) has. It is also possible to improve a touch such as texture and the like, hydrophilicity, water repellency, anticorrosive property and the like according to the fraction improvers (B), (B1) and (B2) to be used. Therefore, the inventive laminate can be used for various applications such as underwear, bath mat, sheets, gloves, pillow cover, stuffing cotton for pillow, bedding, padded sleeveless coat, cushion and the like, shod paper, wall paper, clothes cover, cushion cover, bedding storage bag, insecticide sheet, pack for vacuum cleaner, filter for air conditioners, filter for air purifier, scrubbing brush for tableware, water draining garbage bag, carpet, hot carpet cover, curtain, deodorant sheet for refrigerator, special filter paper, freshness retention sheet for vegetable, meat and the like, packaging materials for freshness retention transport, wall materials, floor materials, ceiling materials, dewing absorption sheet and the like.

Detailed Description Text (106):

The zeolite-pulp composite (100 g) obtained in Production Example 2 was mixed with wood powder (300 g), polyvinyl alcohol, vinyl acetate adhesive (50 g) and water (200 g), and the mixture was placed in a mold and pressurized to give a product (thickness 3.0 cm).

CLAIMS:

6. The composition of claim 1, wherein the natural cellulose is at least one member selected from the group consisting of pulp, cotton, hemp and kenaf.
14. The composition of claim 7, wherein the natural cellulose is at least one member selected from the group consisting of pulp, cotton, hemp and kenaf.

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L5: Entry 31 of 34

File: USPT

May 3, 1994

DOCUMENT-IDENTIFIER: US 5308896 A

TITLE: Particle binders for high bulk fibers

Detailed Description Text (6):

A bleaching process, such as chlorine or ozone/oxygen bleaching may be used in pretreating the fibers. In addition, the fibers may be pretreated, as by slurring the fibers in baths containing antimicrobial solutions (such as solutions of antimicrobial particles as set forth below), fertilizers and pesticides, and/or fragrances and flavors, for release over time during the life of the fibers. Fibers pretreated with other chemicals, such as thermoplastic and thermoset resins may also be used. Combinations of pretreatments may also be employed with the resulting pretreated fibers then being subjected to the application of the binder coating as explained below.

Detailed Description Text (10):

Specific examples of natural fibers that contain a hydrogen bonding functionality include chopped silk fibers, wood pulp fibers, bagasse, hemp, jute, rice, wheat, bamboo, corn, sisal, cotton, flax, kenaf, peat moss, and mixtures thereof. Suitable synthetic fibers with hydrogen bonding functionalities include acrylic, polyester, carboxylated polyolefins, rayon and nylon. The hydrogen bonding functionality is an ester in acrylic fibers and a carboxylic acid in carboxylated polyolefin fibers, an ester in polyester, an amide in nylon, and a hydroxyl in rayon. Polyethylene and polypropylene would be unsuitable fibers for use in particle to fiber bonding in accordance with the present invention because they include only carbons and hydrogens without any oxygens or nitrogens that can participate in hydrogen bonds.

Detailed Description Text (19):

In one disclosed embodiment the added particles are superabsorbent particles, which comprise polymers that swell on exposure to water and form a hydrated gel (hydrogel) by absorbing large amounts of water. Superabsorbents are defined herein as materials that exhibit the ability to absorb large quantities of liquid, i.e. in excess of 10 to 15 parts of liquid per part thereof. These superabsorbent materials generally fall into three classes, namely starch graft copolymers, crosslinked carboxymethylcellulose derivatives and modified hydrophilic polyacrylates. Examples of such absorbent polymers are hydrolyzed starch-acrylonitrile graft copolymer, a neutralized starch-acrylic acid graft copolymer, a saponified acrylic acid ester-vinyl acetate copolymer, a hydrolyzed acrylonitrile copolymer or acrylamide copolymer, a modified cross-linked polyvinyl alcohol, a neutralized self-crosslinking polyacrylic acid, a crosslinked polyacrylate salt, carboxylated cellulose, and a neutralized crosslinked isobutylene-maleic anhydride copolymer.

Detailed Description Paragraph Table (1):

TABLE I	Function	Particulates For Binding Name
		Aluminum Trihydrate Fire retardant,
	astrigent Acediasulfone Antibacterial Agaricic acid Antiperspirant Alclometastone	
	Topical anti-inflammatory Calcium alginate Topical hemostatic Amidomycin Fungicide	
	Antimony oxide Fire retardant Apigenin Yellow dye, mordant Arsenic disulfide Red	
	Pigment Aspirin Anti-inflammatory; antipyretic Azanidazole Antiprotozoal	
	(Trichomonas) Azelaic acid Antiacne Baicalein Astringent Bendazac Anti-inflammatory	
	Benomyl Fungicide; ascaricide Benzestrol Estrogen Benzylpenicillinic acid	
	Antibacterial Benzylsulfamide Antibacterial Bergaptene Antipsoriatic Betasine Iodine	
	source Bezitramide Narcotic analgesic Bibrocathol Topical antiseptic Bietanautine	

Antihistaminic Bifenox Herbicide Bifonazole Antifungal Binapacryl Fungicide, miticide Bis(p-chlorophenoxy) methane Miticide Bismuth aluminate Antacid Bismuth iodide oxide Anti-infective Bismuth phosphate Antacid; protectant Bismuth subcarbonate Topical protectant Bismuth subgallate Astringent, antacid; protectant Bisphenol A Fungicide Bitertanol Agricultural fungicide Bithionol Topical anti-infective Bromacil Herbicide Bromadiolone Rodenticide Bromocresol green Indicator Bromocresol purple Indicator Bromethalin Rodenticide p-Bromoacetanilide Analgesic; antipyretic 3-Bromo-d-camphor Topical counterirritant Bromophos Insecticide Bromopropylate Acaricide 5-Bromosalicyl- antibacterial (tuberculostatic) hydroxamic acid 5-Bromosalicylic acid Analgesic acetate Bromosaligenin Anti-inflammatory Bromthymol blue Indicator Broxyquinoline Antiseptic; disinfectant Bucetin Analgesic Bumadizon Analgesic; anti-inflammatory; antipyretic Bupirimate Fungicide Busulfan Carcinogen, insect sterilant, antineoplastic Butamben Topical anesthetic Butrylin Insecticide Butylated hydroxy- Antioxidant (BHA) anisole Butyl paraben Pharmaceutical aid; food preservative 4-tert-Butylphenyl Light absorber salicylate Cacotheline Indicator Cactinomycin Antineoplastic Cadmium salicylate Antiseptic Calamine Skin protectant Calcium carbonate Antacid Calcium saccharate Pharmaceutical aid Calcium tartrate Preservative; deodorant; antacid Cambendazole Anthelmintic Candicidin Topical antifungal Candidin Topical antifungal Capsaicin Topical analgesic Captan Fungicide; bacteriostat Carbadox Antimicrobial Carbamazepine Anticonvulsant; analgesic Carbarsone Antiamebic Carbaryl Contact insecticide Carbazochrome Antihemorrhagic salicylate Carbendazim Fungicide Carbochloral Hypnotic Carbophenothion Miticide; insecticide Carboquone Antineoplastic Carisoprodol Skeletal muscle relaxant Carthamin Dye Carvacrol Disinfectant Cephalin Local hemostatic Chalcomycin Antibiotic Chartreusin Antibiotic Chitin Vulnerary Chloramben Herbicide Chloramphenacol Antimicrobial palmitate Chloranil Fungicide Chlorbetamide Antiamebic Chlordimeform Insecticide Chlorfenac Herbicide Chlorfenethol Acaricide Chlorhexidine Topical antibacterial Chloroazodin Antibacterial; topical anesthetic Chlorophacinone Anticoagulant rodenticide p-Chlorophenol Antiseptic Chlorothricin Antibiotic Chlorotrianisene Estrogen Chloroxylenol Antiseptic; germicide Chlorphenesin Topical antifungal Chlorphenesin carbamate Relaxant (skeletal muscle) Chlorphenoxamide Antiamebic Chlorpropamide Antidiabetic Chlorpyrifos Insecticide Chlorquinaldol Topical antibacterial Chlorsulfuron Herbicide Chlorothion Insecticide Chlozoxazone Relaxant Cholesterol Pharmaceutical aid Chromic carbonate Pigment Chromic hydroxide Pigment Chromic oxide Abrasive Chromic phosphate Green pigment Chrysamminic acid Explosive Chrysarobin Antipsoriatic Cilastazol Antithrombotic Cinoxate Sunscreen agent

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